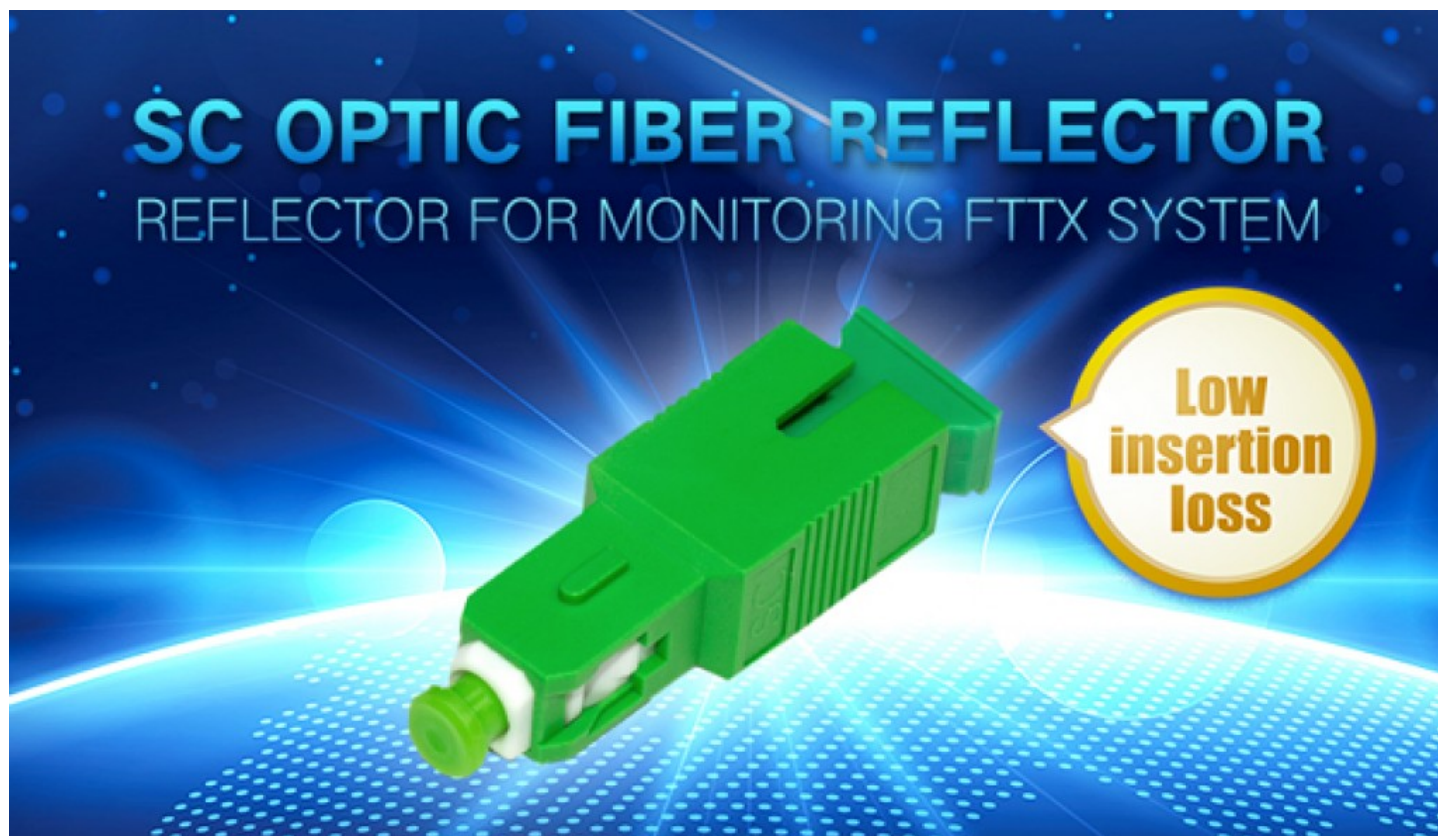


Optic Fiber Reflector for monitoring FTTx system



Shenzhen, Dec 25, 2018 (Issuewire.com) - A **fiber optic reflector** is an optical passive device constructed in a short segment of optical fiber, using FBG fiber gratings or filters, that reflects particular wavelengths of light and transmits all others that are not within the specific reflection wavelength range.

With its low insertion loss at the transmission wavelength range and high reflectance at the reflected wavelength range, it is the ideal optical termination for link monitoring of FTTx networks, FTTx reflectors are suitable for both point to point (PTP) and point to multipoint (PTMP) networks. They are preferably installed at the subscriber's homes in order to highlight these positions in the OTDR trace by distinct reflections of the test signal.

In PONs, they are preferably installed at the subscriber's homes in order to highlight these positions in the OTDR trace by distinct reflexions of the test signal. OTDR determines whether the optical fiber in the link is damaged or broken by detecting the optical signal intensity reflected by the reflector and comparing the return loss between the normal line and the faulty link. However, the normal passive optical network (PON) will pass through the reflector with little attenuation due to the wavelength does not meet the reflector conditions. The reflector achieves the monitoring function without disturbing or losing the flow.

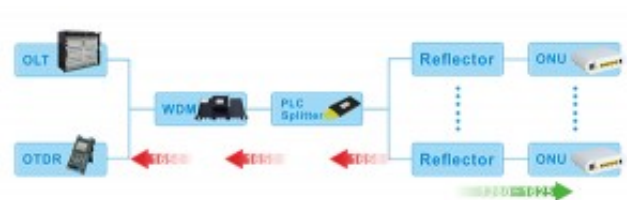
Common types include adapter type and pigtail type. [HYC \(HYC Co., Ltd\)](#) SC reflector is a kind of reflector based on SC connector package. SC/APC and SC/PC interfaces are available.

Fiber reflector has a compact design, low cost, good stability, and more features. The main reference

parameters are low insertion loss, high return loss, and high reflectivity. Checking the user's optical continuity when adding or troubleshooting, the small size of the reflector allows it to be conveniently placed in series at the end of the user.

With the implementation of the fiber-to-the-home (FTTH) project, the coverage of the optical network is getting larger and larger, involving more and more users. Therefore, it is particularly important to detect and maintain the fault of the entire optical network quickly and accurately. Fiber optic reflector will be widely used in FTTx network, PON OTDR test, central office reflectivity test, communication system link detection and so on.

For more information about fiber optic reflector, please go to <http://www.hyc-system.com>
HYC Co., Ltd is an optical passive device manufacturer from China, which is offering fiber connectivity, WDM, PLC splitter, and high-density datacom cabling and so on.



Media Contact

HYC CO., Ltd

bella@hyc-system.com

07633319222

Longhua district , shenzhen city

Source : <http://www.hyc-system.com/>

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